Asst. Prof. Akhlaque Ahmad

Personal Information

Office Phone: +90 312 585 0400

Email: akhlaque.ahmad@tedu.edu.tr

Web: https://avesis.tedu.edu.tr/akhlaque.ahmad

International Researcher IDs
ScholarID: JnVhntIAAAAJ
ORCID: 0000-0001-6988-5335
Yoksis Researcher ID: 353380

Biography

Dr. Akhlaque AHMAD earned Ph.D. from Politecnico di Torino, Italy in the subject of electronics and telecommunications. He worked at STMicroelectronics Milano during his masters and Ph.D. studies. He contributed to European FP7 project Real and Virtual Come Together in a Virtual Reality (REVERIE). It is a general-purpose tele-immersion system that enables individuals to interact in a shared 3D synthesized environment. The system reconstructs a virtual character of participating user by forming a mesh, which is further encoded, so that to be transmitted over network.
Dr. Akhlaque joined TED University as an assistant professor. He admires the liberal arts education and believes that it can produce better elements for society.

Education Information

Doctorate, Politecnico di Torino, Engineering, Electronics and Telecommunication Engineering, Italy 2011 - 2014
Postgraduate, Politecnico di Torino, Engineering, Electronics and Telecommunication Engineering, Italy 2008 - 2010

Research Areas

algorithms, Computer Networks, Theoretical Computer Science, Artificial Intelligence, Computer Learning and Pattern Recognition

Academic Titles / Tasks

Assistant Professor, TED University, Faculty of Engineering, Department of Software Engineering, 2021 - Continues
Assistant Professor, Habib University, School of Science and Engineering, Computer Science, 2018 - 2021
Assistant Professor, Iqra University, Computer Science, 2014 - 2018

Courses

Operating Systems, Undergraduate, 2021 - 2022
Fundamentals of Programming I, Undergraduate, 2022 - 2023
Database Systems, Undergraduate, 2022 - 2023

Relational Databases, Undergraduate, 2022 - 2023

Fundamentals of Programming I, Undergraduate, 2022 - 2023

Information Retrieval, Postgraduate, 2021 - 2022

Fundamentals of Programming II, Undergraduate, 2021 - 2022

Artificial Intelligence, Undergraduate, 2021 - 2022

Fundamentals of Programming II, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Merging engine implementation for intra-frame sharing in multi-tenant virtual passive optical networks**
Ahmad A., Ahmad A., Ahmad A., Al-Dweik A., Ali S. T.
JOURNAL OF OPTICAL COMMUNICATIONS AND NETWORKING, vol.15, no.4, pp.209-218, 2023 (SCI-Expanded)

II. **Crumbling walls log quorum system-based name resolution routing for CCN based IoT**
Shah P. I., Shah P. A., Yasmin S., Ur-Rehman Z., Ahmad A., Nam Y., Rho S.
Journal of Universal Computer Science, vol.24, no.9, pp.1282-1305, 2018 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Accelerating k-Core Decomposition on a GPU**
Ahmad A., Yuan L., Yan D., Guo G., Chen J., Zhang C.
International Conference on Data Engineering, California, United States Of America, 3 - 07 April 2023, pp.1-12

II. **Accelerating k-Core Decomposition by a GPU**
Ahmad A., Yuan L., Yan D., Guo G., Chen J., Zhang C.
39th IEEE International Conference on Data Engineering, ICDE 2023, California, United States Of America, 3 - 07 April 2023, vol.2023-April, pp.1818-1831

III. **Merging Engine Implementation with Co-Existence of Independent Dynamic Bandwidth Allocation Algorithms in Virtual Passive Optical Networks**
Malik G., Ahmad A., Ahmad A.
Asia Communications and Photonics Conference, 01 January 2021

IV. **Evolution-based deployment scheme for green internet of things**
Hussain A., Khan F. A., Ahmad A.
5th IEEE World Forum on Internet of Things, WF-IoT 2019, Limerick, Ireland, 15 - 18 April 2019, pp.237-242

V. **Opposition-based initialization and a modified pattern for Inertia Weight (IW) in PSO**
Farooq M. U., Ahmad A., Hameed A.
2017 IEEE International Conference on INnovations in Intelligent SysTems and Applications, INISTA 2017, Gdynia, Poland, 3 - 05 July 2017, pp.96-101

VI. **A Simple, Fast and Near Optimal Approximation Algorithm for Optimization of Un-Weighted Minimum Vertex Cover**
Fayaz M., Arshad S., Zaman U., Ahmad A.
14th International Conference on Frontiers of Information Technology, FIT 2016, Islamabad, Pakistan, 19 - 21 December 2016, pp.176-180

VII. **Traffic pattern based adaptive spectrum handoff strategy for cognitive radio networks**
Hanif I., Zeeshan M., Ahmad A.
10th International Conference on Next Generation Mobile Applications, Security and Technologies, NGMAST 2016, Cardiff, Wales, England, 24 - 26 August 2016, pp.18-23

VIII. **3D graphics compression and rendering framework**
Ahmad A., Ijaz U., Olmo G., Quacchio E., Anselmo T., Alfonso D.
6th International Conference on Computer Vision / Computer Graphics Collaboration Techniques and

Applications, MIRAGE 2013, Berlin, Germany, 6 - 07 June 2013

Activities in Scientific Journals

IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS, Evaluation Committee Member, 2023 - Continues
DISTRIBUTED AND PARALLEL DATABASES, Evaluation Committee Member, 2023 - Continues